

A-Form of Cytoplasmic Domain of nARIA (CRD-neuregulin) And
Uses Thereof

Abstract of the Disclosure

This invention provides ^{nARIA-based} ~~an~~ assays for ^{detecting} ~~diagnosing~~ whether a subject has or is predisposed to developing a neoplastic disease, ~~which comprises:~~ a) ~~obtaining a biological sample from the subject;~~ b) contacting the sample with an agent that detects the presence of an extracellular domain of nARIA (CRD-neuregulin) or an isoform thereof; c) measuring the amount of agent bound by the sample; d) comparing the amount of agent bound measured in step c) with the the amount of agent bound by a standard normal sample, a higher amount bound by the sample from the subject being indicative of the subject having or being predisposed to developing a neoplastic disease. ~~One embodiment of This invention~~ ^{further provides a} ~~is a~~ method for maintaining synaptic connections between a neuron and a target cell comprising contacting the target cell ~~with~~ ^{nARIA-based} an nARIA polypeptide or a nucleic acid molecule encoding nARIA in an amount sufficient to induce the formation of a synaptic junction.



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5 Abstract of the Disclosure

This invention provides nARIA-based assays for defining whether a subject has or is predisposed to developing a neoplastic disease. This invention further provides a nARIA-based method for maintaining synaptic connections between a neuron and a target cell.